### (19) World Intellectual Property Organization

International Bureau



## . | 1888 | 1888 | 1888 | 1889 | 1889 | 1889 | 1889 | 1889 | 1889 | 1889 | 1889 | 1889 | 1889 | 1889 | 1889 | 1

(43) International Publication Date 17 June 2004 (17.06.2004)

#### PCT

# (10) International Publication Number WO 2004/049890 A1

(51) International Patent Classification7:

A47L 9/16

(21) International Application Number:

PCT/GB2003/005193

- (22) International Filing Date: 2 December 2003 (02.12.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0228152.5

3 December 2002 (03.12.2002) GF

- (71) Applicant (for all designated States except US): TECHTRONIC INDUSTRIES COMPANY LIM-ITED [CN/CN]; 24/F CDW Building, 388 Castle Peak Road, Tsuen Wan, N.T., Hong Kong (CN).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): IVARSSON, Bengt, Ivar, Anders [GB/GB]; 27 Park Road, Bearwood, Smethwick, Birmingham B67 5HP (GB).

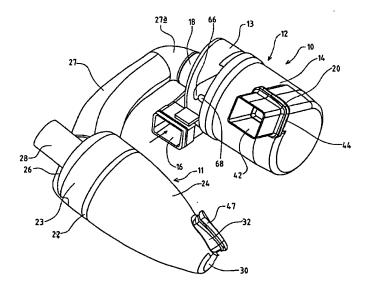
- (74) Agent: FORRESTER KETLEY & CO; Chamberlain House, Paradise Place, Birmingham B3 3HP (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: CYCLONIC SEPARATORS FOR SUCTION CLEANERS



(57) Abstract: A dust separating apparatus for a suction cleaner comprises a cyclonic separating device (10) having a body (12) with an inlet and an outlet for a stream of air and an outlet for separated dust to enter a receptacle (34) for the dust, the body having a part (14) movable in relation to the rest (13) of the body while the rest of the body remains in position in the cleaner, to give access to the interior of the body for cleaning. There may be two separating devices (10, 11) arranged in succession, both having removable body parts (14, 24).



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.